IV. AMENDMENTS TO THE CLAIMS

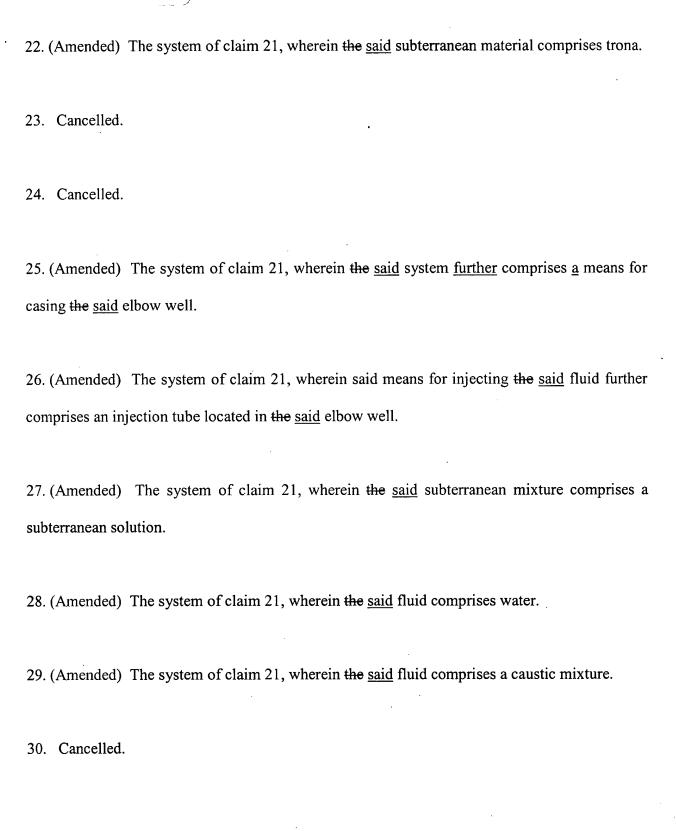
- A. Please cancel claims 23-24, 30 and 36 from the case.
- B. Please further amend the claims as indicated below:
- 1. (Twice amended) A method for solution-mining of a subterranean material in an elbow well having a single cavity, the said method comprising:

injecting a fluid into an said elbow well, the said fluid forming a subterranean mixture with the said subterranean material in a said single cavity; and collecting the said subterranean mixture from the said elbow well.

- 2. (Amended) The method of claim 1, wherein the said subterranean material comprises trona.
- 3. (Amended) The method of claim 1, further comprising making the said elbow well.
- 4. (Amended) The method of claim 3, wherein said making the <u>said</u> elbow well comprises drilling an elbow well into a bed comprising the <u>said</u> subterranean material.
- 5. (Amended) The method of claim 1, wherein the <u>said</u> method <u>further</u> comprises casing the said elbow well.
- 6. (Amended) The method of claim 1, wherein said injecting the <u>a</u> fluid further comprises injecting the <u>said</u> fluid into an injection tube located in the <u>said</u> elbow well.

- 7. Cancelled.
- 8. (Twice amended) The method of claim 1, wherein the <u>said</u> single cavity comprises the <u>said</u> subterranean material mixture after said injecting the <u>said</u> fluid.
- 9. (Amended) The method of claim 1, wherein the said subterranean mixture comprises a subterranean solution.
- 10. (Amended) The method of claim 1, wherein the said fluid comprises water.
- 11. (Amended) The method of claim 1, wherein the said fluid comprises a caustic mixture.
- 12. (Amended) The method of claim 1, wherein the <u>said</u> method further comprises heating the said fluid.
- 13. (Amended) The method of claim 1, wherein said collecting the <u>said</u> subterranean mixture further comprises collecting the <u>said</u> subterranean mixture through a production tube located in the <u>said</u> elbow well.
- 14. (Amended) The method of claim 1, wherein said collecting the <u>said</u> subterranean mixture comprises pumping the <u>said</u> subterranean mixture.

- 15. (Twice amended) The method of claim 14, wherein said pumping the <u>said</u> subterranean mixture comprises lifting the <u>said</u> subterranean mixture through a production tube.
- 16. (Amended) The method of claim 15, wherein the <u>said</u> method further comprises delivering the <u>said</u> subterranean mixture to a collection location.
- 17. (Amended) The method of claim 16, wherein the said collection location comprises the earth's surface.
- 18. (Amended) The method of claim 14, wherein the said method further comprises placing a pump in the said elbow well.
- 19. (Amended) The method of claim 1, wherein the said method occurs at ambient well pressure.
- 20. (Amended) The method of claim 1, wherein the <u>said</u> method further comprises processing the said subterranean mixture after said collecting the said subterranean mixture.
- 21. (Twice amended) A system for solution-mining of a subterranean material in an elbow well having a single cavity, the said system comprising:
- <u>a</u> means for injecting a fluid into <u>an said</u> elbow well, <u>the said</u> fluid forming a subterranean mixture with <u>the said</u> subterranean material in <u>a said</u> single cavity; and
 - a means for collecting the said subterranean mixture from the said elbow well.



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- 31. (Amended) The system of claim 21, wherein said means for collecting the <u>said</u> subterranean mixture comprises a means for pumping the <u>said</u> subterranean mixture.
- 32. (Amended) The system of claim 31, wherein the <u>said</u> system further comprises <u>a</u> means for placing a pump in the <u>said</u> elbow well.
- 33. (Amended) The system of claim 31, wherein the <u>said</u> system further comprises <u>a</u> means for delivering the <u>said</u> subterranean mixture to a collection location.
- 34. (Amended) The system of claim 33, wherein the said collection location comprises the earth's surface.
- 35. (Twice amended) The system of claim 21, wherein the said system operates at ambient well pressure.
- 36. Cancelled.
- 37. (Amended) An apparatus for solution-mining of a subterranean material <u>in an elbow well</u> <u>having a single cavity</u>, the <u>said</u> apparatus comprising:

an injection tube, wherein the <u>said</u> injection tube has an injection tube inner diameter of sufficient size to allow for injection of a fluid for mining of a subterranean material; and

a production casing, wherein the <u>said</u> production casing has a production casing inner diameter of sufficient size to allow for production of a subterranean mixture of the <u>said</u> fluid and

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the <u>said</u> subterranean material between an outer surface of the <u>said</u> injection tube and an inner surface of the <u>said</u> production casing.

- 38. (Amended) The apparatus of claim 37, further comprising a production tube for collecting the said subterranean mixture.
- 39. (Amended) The apparatus of claim 38, further comprising a pump connected to the said production tube.